IMACS FORM 07A: MYOSITIS DISEASE ACTIVITY ASSESSMENT TOOL (MDAAT) - 2005, VERSION 2

General Guidelines for Completion:

This is a combined tool that captures the physician's assessment of disease **activity** of various organ systems using (1) the 0-4 scale described below and (2) a visual analog scale (VAS). Please assess the clinical features (items 1-26) of each organ system based upon:

- a) The presence of clinical features or symptoms within the previous 4 weeks that are due to active disease (i.e. use your clinical judgment to determine how active the myositis-associated clinical feature has been within the previous 4 weeks)
- b) The judgment that the feature is due to the myositis disease process (i.e. clinical findings known or suspected to be due to another disease process or due to therapy should **NOT** be considered in this evaluation)
- c) The concept that disease activity is defined as a potentially reversible finding
- d) A clinical, functional, and laboratory assessment for each organ system:
 - NA = Cannot be assessed
 - 0 = Not present in the last 4 weeks
 - 1 = Improving clinically significant improvement in the last 4 weeks compared to the previous 4 weeks
 - 2 = The same manifestations that have been present for the last 4 weeks without significant improvement or deterioration compared to the previous 4 weeks
 - 3 = Worse clinically significant deterioration over the last 4 weeks compared to the previous 4 weeks
 - 4 = New in the last 4 weeks (compared to the previous 4 weeks)

Also, rate your overall (global) assessment of the ongoing disease activity over the past 4 weeks for each organ system on the 0-10cm VAS scale (which precedes the listed clinical features) by drawing a **vertical** mark on the 10cm line according to the following guidelines:

- left end of line = no evidence of disease activity
- midpoint of line = moderate disease activity
- right end of line = extreme or maximum disease activity

Please review the glossary as you score each listed clinical feature. The VAS score for each organ system integrates the severity of activity based upon all of the clinical features listed for that particular organ system.

NOTE: The "Extramuscular Global Assessment" is very important as this is a Core Set Measure encompassing an overall evaluation for the disease activity in all the extramuscular organ systems and excludes muscle disease activity.

Guidelines for scoring mild, moderate, severe:

First, identify the category of mild-severe **using the glossary as a guide**. Then score what has happened in the last 4 weeks compared to the previous 4 weeks. Note that with worsening (3) or new (4) activity in the designated category, the same degree of activity should be ascribed in the items that are "less severe." For example:

- In a patient developing <u>new</u> moderate muscle inflammation (see glossary for definition) in the last 4 weeks, "moderate muscle inflammation" (25b) would score a 4 as would "mild muscle inflammation" (25c)
- If "severe muscle inflammation" worsened in the last 4 weeks, then the severe (25a), moderate (25b) and mild (25c) muscle inflammation categories would all score a 3

If a patient had severe muscle inflammation at last visit one month ago and improves to a moderate category over the past 4 weeks (based on the glossary definition), then score the severe category (25a) as a 1 (improving) and score moderate (25b) and mild (25c) as either a 1 or 2 (this would depend on just how much improvement has occurred over the last month so the glossary should be reviewed for this). If one month later the symptoms have further improved, then score the severe category (25a) as a 0 and the moderate (25b) and mild (25c) categories as a 1.

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11. Alopecia:

a. Diffuse hair loss

12. Mechanics hands

b. Focal, patchy with erythema

Subject's IMACS number:_____ ASSESSOR:_____ Date Assessed:_____Assessment number:____ (Maximum) (Absent) **Examples of maximal score** Severe fatigue or malaise resulting in being bed Constitutional bound and an inability to perform self care **Disease Activity** 1. Pyrexia – documented fever > 38° Celsius 0 1 NA Weight loss – unintentional > 5% 0 4 NA 3. Fatigue/malaise/lethargy 0 4 NA (Maximum) (Absent) **Examples of maximal score** Cutaneous - Ulceration to muscle, tendon or bone; **Disease Activity** - Extensive erythroderma 4. Cutaneous ulceration 0 4 NA 2 0 NA Ervthroderma Panniculitis 0 1 4 NA 7. Erythematous rashes: a. with secondary changes (e.g. accompanied by erosions, vesiculobullous change or necrosis) 0 NA b. without secondary changes NA 8. Heliotrope rash NA 9. Gottron's papules/sign n 3 4 NA 10. Periungual capillary changes n 4 NA

0

0

1

NA

NA

NA

4

Skeletal Disease Activity	(Absent)		(Maximum) 	cm	Examples of maximal score Severe arthritis with extreme loss of function (bedridden, inability for self care)					function		
13. Arthritis:												
a. Severe active po	olyarthritis				0	1	2	3	4	NA		
b. Moderately activ	e arthritis				0	1	2	3	4	NA		
c. Mild arthritis					0	1	2	3	4	NA		
14. Arthralgia					0	1	2	3	4	NA		
Gastrointestinal Disease Activity	(Absent)		(Maximum)	cm	Majo	Examples of maximal score Major abdominal crisis requiring surgery or ntensive care 0 1 2 3 4 NA						
15. Dysphagia:												
a. Moderate/sever	e dysphagia				0	1	2	3	4	NA		
b. Mild dysphagia	, , ,				0	1		3	4	NA		
	ated to the myositis disease	e process:										
a. Severe	·	•			0	1	2	3	4	NA		
b. Moderate					0	1	2	3	4	NA		
c. Mild					0	1	2	3	4	NA		
Pulmonary	(Absent) (Maximum)					Examples of maximal score						
Disease Activity						Active interstitial lung disease or respiratory						
	'						muscle weakness requiring ventilatory support					
· · · · · · · · · · · · · · · · · · ·	weakness without intersti	tial lung disease (ILD):										
a. Dyspnea at rest					0	1	2	3	4	NA		
b. Dyspnea on exe	rtion				0	1	2	3	4	NA		
		abnormalities due to pulmonatests and score each item be										
a. Dyspnea or cou	gh due to ILD				0	1	2	3	4	NA		
 b. Parenchymal abnormalities on chest x-ray or high resolution CT scan (HRCT) and/or ground glass shadowing on HRCT 					0	1	2	3	4	NA		
•	tion Tests: ≥ 10% change i	in EVC or DLCO			0	1	2	3	4	NA		
19. Dysphonia:	1011 16313. = 10 /0 Ghange 1	III VO OI DEGO			U	ı	2	3	7	INA		
	vere				0	1	2	3	4	NA		
 a. Moderate to se 	VCIC				U		_	J		11/7		

Cardiovascular Disease Activity	(Absent)	My	Examples of maximal score Myocarditis, pericarditis or severe arrhythn requiring intensive care unit						
20. Pericarditis				0	1	2	3	4	NA
21. Myocarditis				0	1	2	3	4	NA
22. Arrhythmia:									
a. Severe arrhythn	nia			0	1	2	3	4	NA
b. Other arrhythmia, except sinus tachycardia					1	2	3	4	NA
23. Sinus tachycardia				0	1	2	3	4	NA
Other Disease Activity	(Absent)		(Maximum)	- Examples of maximal cools					
					cm Extreme disease activity with major impact function				
24. Specify:				0	1	2	3	4	NA
Extramuscular Global Assessment	(Absent)		(Maximum) 	ext	Overall evaluation for disease activity in all extramuscular systems (EXCLUDING MUSCLE DISEASE ACTIVITY)				
Muscle Disease Activity	(Absent)		(Maximum) 	Sev	amples overe musuand and a	cle weak	ness res	ulting in	being bed care
25. Myositis:									
a. Severe muscle	inflammation			0	1	2	3	4	NA
	cle inflammation			0	1	2	3	4	NA
c. Mild muscle inf				0	1	2	3	4	NA
26. Myalgia				0	1	2	3	4	NA
Global Disease Activity	(Absent)	-	(Maximum) 	in A	Overall evaluation for the totality of disease activity in ALL systems, (INCLUDING MUSCLE DISEASE ACTIVITY)				